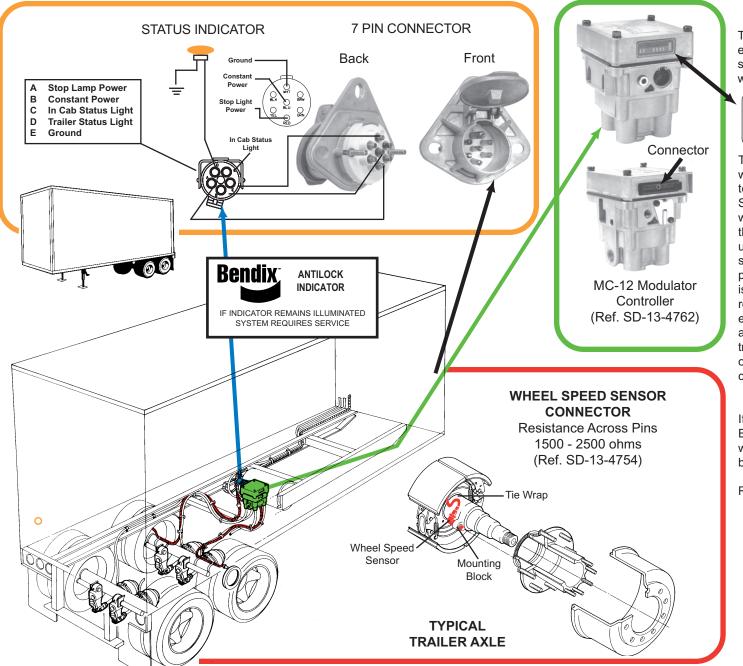
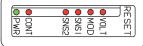
Troubleshooting The Bendix® MC-12 Trailer AntiLock System (Post 2/98)



OPERATIONAL INFORMATION

The EC-12 controller houses the electronics that regulate the antilock system. The EC-12 contains a diagnostic window and a 14 pin connector.



Diagnostic Window

The FC-12 mounts on the M-12 modulator with four bolts and it is internally connected to the solenoids by a four pin connector. Sensors mounted at the wheel end send wheel speed information to the EC-12 through the 14 pin connector. If wheel lock up is impending, the EC-12 commands the solenoids to modulate brake chamber pressure on the axle(s) in which the system is installed. The MC-12 modulator controller receives power and ground from the vehicles electrical system. During start up, trailer antilock immediately runs a self check. The trailer status light flashes once and then goes off. Should a problem occur, the status light comes on and remains on.

TROUBLESHOOTING

If the status light remains on, inspect the EC-12 for illuminated LEDs. If no status light was installed, the diagnostic LEDs should be checked periodically.

Reset controller with magnet after repair.



IF THESE LED'S ARE ILLUMINATED

0 0 0

SUS I

CHECK THE VEHICLE WIRING HARNESS CONNECTOR FOR THE PROPER RESISTANCE WITH STOP LAMP POWER OFF

MC-12 Controller Cable Assembly





PNMLKJH

N - P 15 -2500 Ohms



Sensor 2 (yellow) Sensor 2 (yellow)

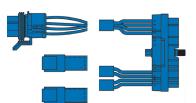
Ground

Stop Lamp Power

In Cab Status Lamp

Trailer Status Lamp

Constant Power



Stop Lamp Power Constant Power Ground

Trailer Status Lamp

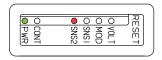
To Controller

Cab Status Lamp (optional) Sensor 2 Sensor 2

Sensor 1

Sensor 1 (blue) Sensor 1 (blue)

Vehicle wire harness



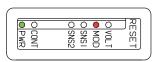
SENSOR 2



PNMLKJH GFEDCBA

L - M 15 -2500 Ohms









00	○○○○
P 8	S M M
la I	

VOLTAGE w/STOP LAMP **POWER**



A - C 9 to 18 Volts DC B - C 9 to 18 Volts DC

Damaged connectors or wires, caused by dangling or loose wires not properly restrained. bad crimp

- Power connection not capable of supplying 12 volts at 3 amps because of a poor connection,

Most Commonly Encountered Problems That Result In LEDs Being Illuminated. Repair or Replacement Components As Necessary

- Corroded connectors and connections not properly sealed or seated.
- Terminals not completely latched or sealed into connectors: harness connector bolt not tight.
- Improperly spliced connection repair or repair not sealed properly.
- Excessive sensor air gap, sensor bushing tension or excessive bearing end play. (Gently push sensor against exciter ring, or readjust bearings)
- · Non functioning antilock components, sensor, controller, modulator.

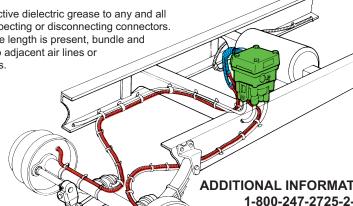
Additional Servicing Tips

Do not pierce wires with probes when troubleshooting harnesses.

Gently probe terminals when checking for resistances, do not deform

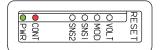
Apply nonconductive dielectric grease to any and all connectors if inspecting or disconnecting connectors. If excessive cable length is present, bundle and

tie wrap neatly to adjacent air lines or framing members.



ADDITIONAL INFORMATION: 1-800-247-2725-2-1

Visit: www.bendix.com



ECU CONTROLLER

Replace Controller

All CONTACT OF THE 14 PIN CONNECTOR ABOVE SHOULD NOT HAVE ANY CONTINUITY TO THE GROUND CONTACT "C". CONTACTS "A" & "B" ARE POWER TO THE MC-12 BW1959 © Bendix Commercial Vehicl Systems LLC 2/2000 • Printed in USA • All Rights Reserved